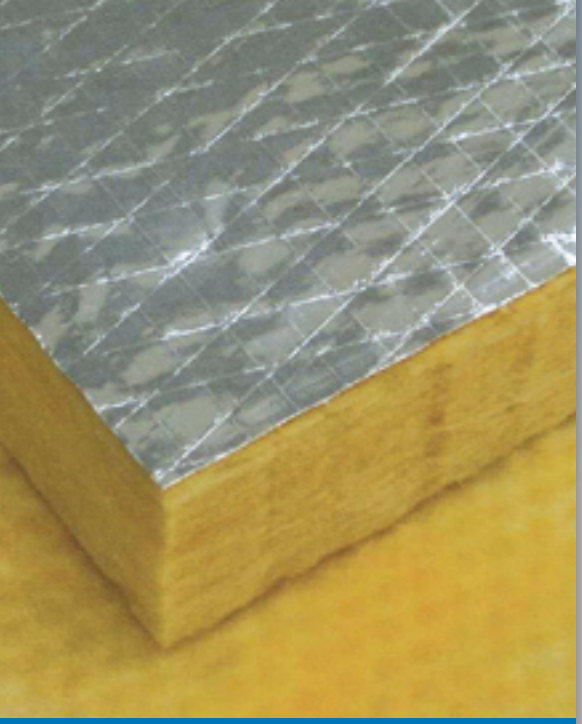


Ottawa Fibre

DATA SHEET

FSK BOARD

FACED FIBRE GLASS INSULATION BOARD

PHYSICAL PROPERTIES

TEMPERATURE LIMITS (ASTM C 411)
From -18°C to 120°C (0°F to 250°F)

SURFACE BURNING CHARACTERISTICS
Does not exceed 25 Flame Spread and 50 Smoke Developed when tested in accordance with ASTM E-84, UL 723, NFPA 255 and CAN/ULC S-102 test methods.

NOMINAL DENSITY (ASTM C 303)
OFI-40 FSK 2.5 lb /ft³ / 40.00 Kg/m³
OFI-48 FSK 3.0 lb /ft³ / 48.05 Kg/m³

THERMAL RESISTANCE
@ 75°F (24°C) mean temperature
OFI-40 FSK R = 4.3/in RSI = .77/25.4 mm
OFI-48 FSK R = 4.3/in RSI = .77/25.4 mm

THERMAL CONDUCTIVITY (ASTM C 177 AND C 518)
OFI-40 FSK k = .23 k (SI)= .033
OFI-48 FSK k = .23 k (SI)= .033

WATER VAPOUR PERMEANCE
Maximum 0.02 perms (1.15 ng/Pa·s·m2), ASTM E96 procedure A

WATER VAPOUR SORPTION
< 5% by weight, ASTM C 1104

FUNGUS MOULD
Does not support growth, ASTM C1338

PUNCTURE RESISTANCE
25 beach units/0.75 joules according to TAPPI T803, ASTM D781

CORROSIVENESS
Will not accelerate corrosion of aluminum, steel or copper, ASTM C 665

LINEAR SHRINKAGE
< 0.3%, ASTM C 356

ODOR
None recorded, ASTM C 1304

DESCRIPTION

OFI FSK Board is a thermal and acoustical rigid fibre glass insulation faced with a Foil/Scrim/Kraft (FSK) vapour retarder on one side. These preformed faced boards are made of inorganic glass fibres bonded together with a thermo-set binder. Available in 2.5 lb (40 kg) and 3 lb (48 kg) densities, OFI FSK Board can be used on systems which operate up to 120°C (250°F). Usually impaled over welded pins on flat surfaces these insulations can be cut with a knife and secured with mechanical fasteners and/or adhesives. Please consult your contractor for the other methods best suited to your application. OFI FSK Boards are clean, resilient, and non-toxic. The factory applied FSK facing provides reflective properties and a neat finished appearance in all applications. OFI FSK Board will not shrink or settle (from exposure, vibration, temperature or humidity), stain or corrode, rot or sustain fungi or vermin.

APPLICATION

OFI FSK Board is suited for thermal and acoustical applications on power and process equipment, boilers, stack installations and exterior ducts. These rigid rectangular boards are also used in all types of commercial building applications, including metal and masonry walls, curtain wall assemblies, cavity wall assemblies, roof panel systems, behind pre-cast concrete panels, between concrete shear walls and columns. Outdoors the insulation boards must be covered with jacketing, mastic or other appropriate vapour retarders. All outdoor exposed surfaces must be protected.

DIMENSIONS

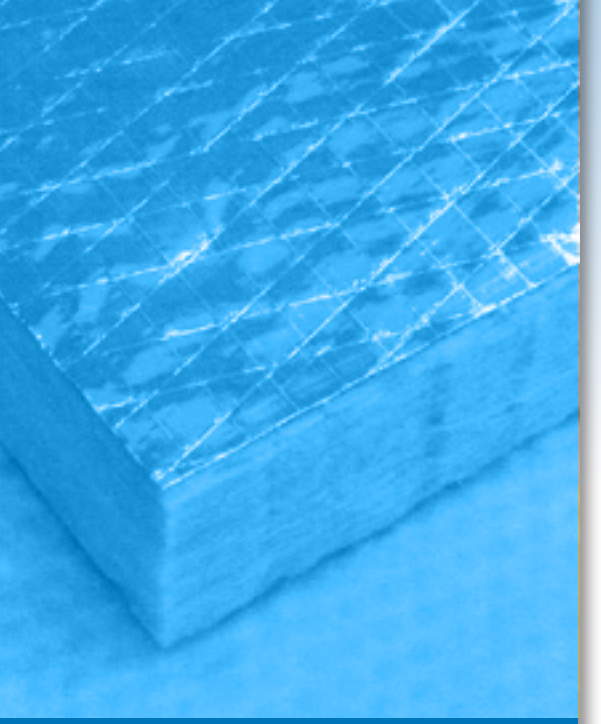
OFI FSK Board is offered in standard 24"x48" (610mm x 1219mm) size. Thicknesses vary from 1" (24mm) to 3" (76mm) in ½" (13mm) increments. Please contact Ottawa Fibre to assure information is current or to inquire about non-standard sizes, other densities or facings.

SPECIFICATION COMPLIANCE

- ASTM C 612, types IA and IB. Standard Specification for Mineral Fiber Block and Board Thermal Insulation.
- ASTM 1136 Types II & IV, FSK Facing
- CGSB 51-GP-52M
- NFPA 90A & 90B

SOUND ABSORPTION COEFFICIENTS (ASTM C423, TYPE "A" MOUNTING)

Product	Thickness	Density	125hz	250hz	500hz	1000hz	2000hz	4000hz	NRC
OFI-40 FSK	1" (25mm)	40.00 Kg/m³ (2.5 lb /ft³)	0.20	0.61	0.72	0.98	0.68	0.30	0.75
OFI-40 FSK	1.5" (38mm)	40.00 Kg/m³ (2.5 lb /ft³)	0.60	0.74	1.17	0.96	0.57	0.33	0.85
OFI-48 FSK	1" (25mm)	48.05 Kg/m³ (3.0 lb /ft³)	0.15	0.71	0.70	0.89	0.65	0.39	0.75
OFI-48 FSK	2" (51mm)	48.05 Kg/m³ (3.0 lb /ft³)	0.51	1.10	1.13	0.82	0.53	0.33	0.90



Ottawa Fibre

DATA SHEET

INSTRUCTIONS

FSK boards can be installed between framing members such that the facing is to the warm side. Continuity of vapour barrier is achieved by taping the joints with metal foil tape. FSK boards can also be pinned using welded pins on equipment or adhered pins on concrete or flat metal surfaces. A speed washer is then installed over the pin with the end curled to prevent movement and then covered with metal foil tape to provide continuity of the vapour barrier.

When FSK boards are used as insulation for exterior duct work, all sheet metal joints must be sealed prior to insulating. The insulation can be installed using pins as mentioned above or held in place with corrosion resistant screws and large washers. The screws and washers must then be covered with a metal foil tape. In order to waterproof the assembly, suitable asphaltic mastic is applied uniformly over the entire insulation surface. Apply jacketing, mastics and other vapour retarders in accordance with manufacturer's instructions. In all applications where a vapour retarder is required, all joints, seams and penetrations shall be sealed.

Exterior applications require the insulation to be covered with an appropriate weather barrier finish in addition to the factory applied FSK facing. Choice of finish depends on mechanical abuse, weather exposure, and appearance requirements. All insulation joints must be firmly butted. Insulation can be secured with adhesive, mechanical fasteners, or banded. Minimum compression is to be used to assure firm fit and thermal performance. All exposed outdoor surfaces must be protected.

In multiple layer applications, use faced material on outer layer only.

OFI FSK BOARDS CONTAIN 65% RECYCLED GLASS.

YOU COULD EARN VALUABLE LEED® CREDITS WHEN SPECIFYING THEM!

A GREENHOUSE PRODUCT™ 65% RECYCLED GLASS

BUILDgreen™

Part of the Solution™

Ottawa Fibre L.P.

1365 JOHNSTON ROAD
OTTAWA, ONTARIO
CANADA K1V 8Z1

TEL: 613.247.7116
TOLL FREE: 1.877.634.7378
FAX: 613.736.7281

www.ofigroup.com